

FIG. 1

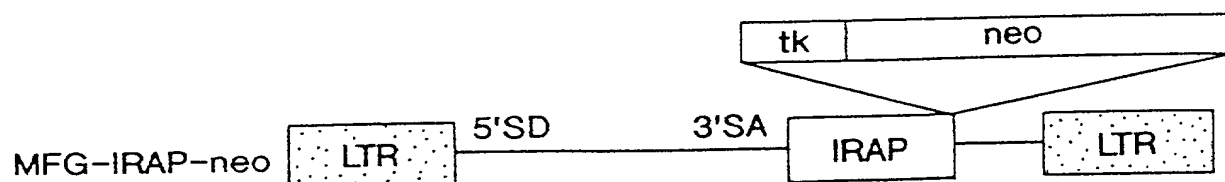


FIG. 2



FIG. 3

09731175 120500

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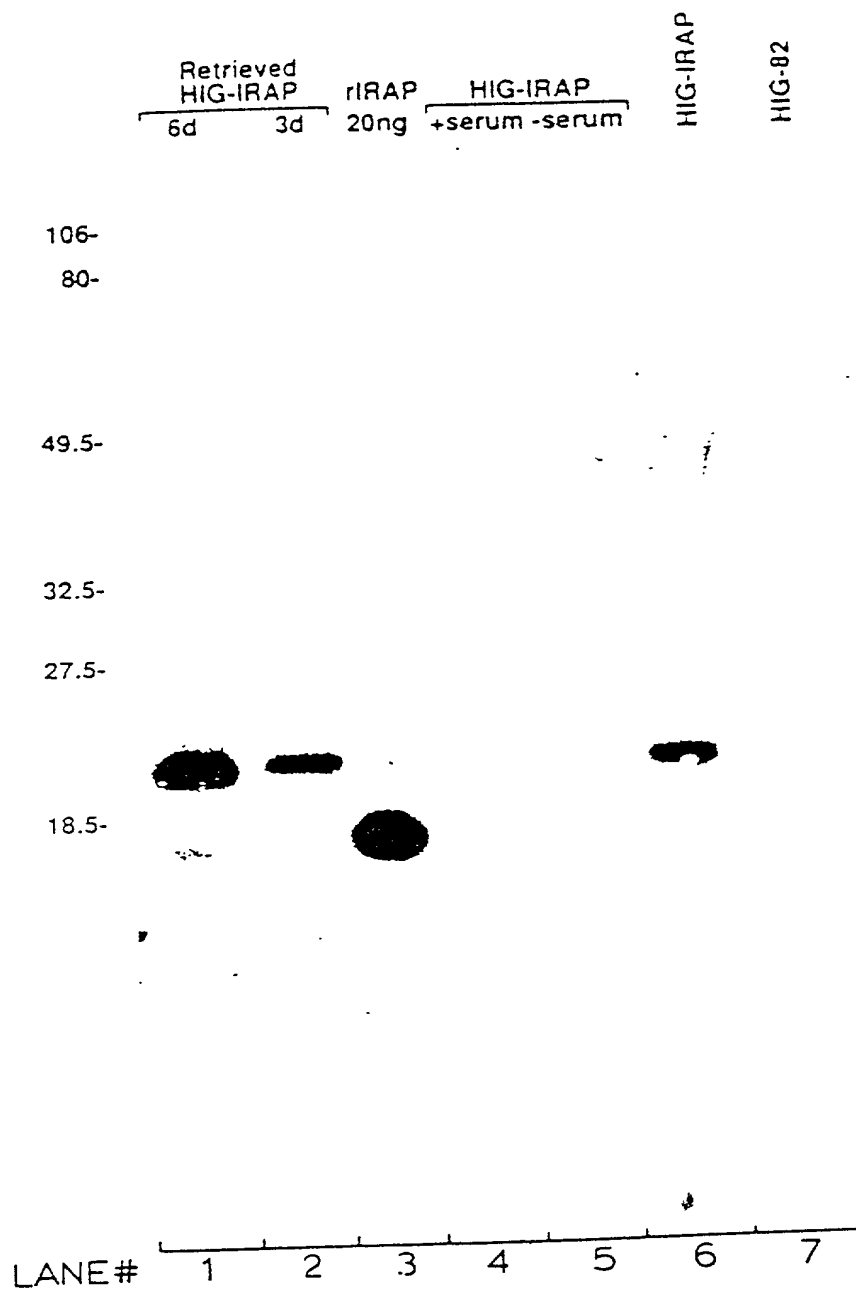


FIG. 4

Units Gelatinase/  
 $10^6$  Chondrocytes

% Inhibition

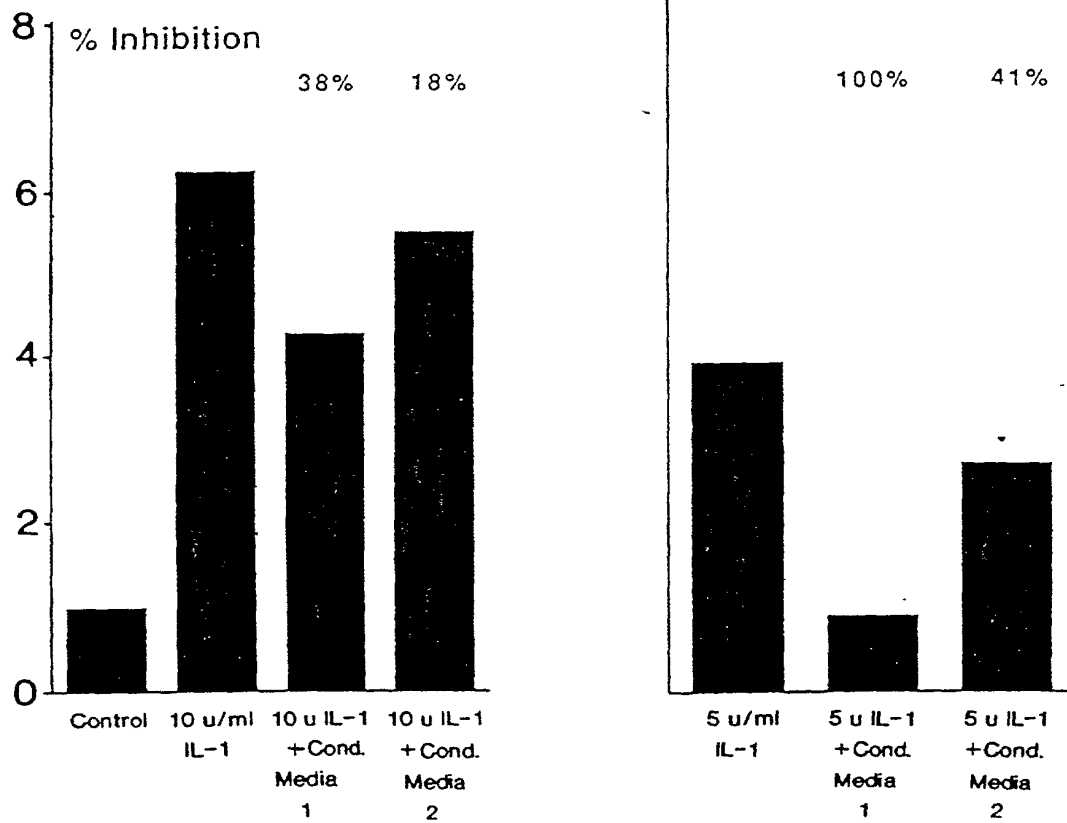


FIG. 5

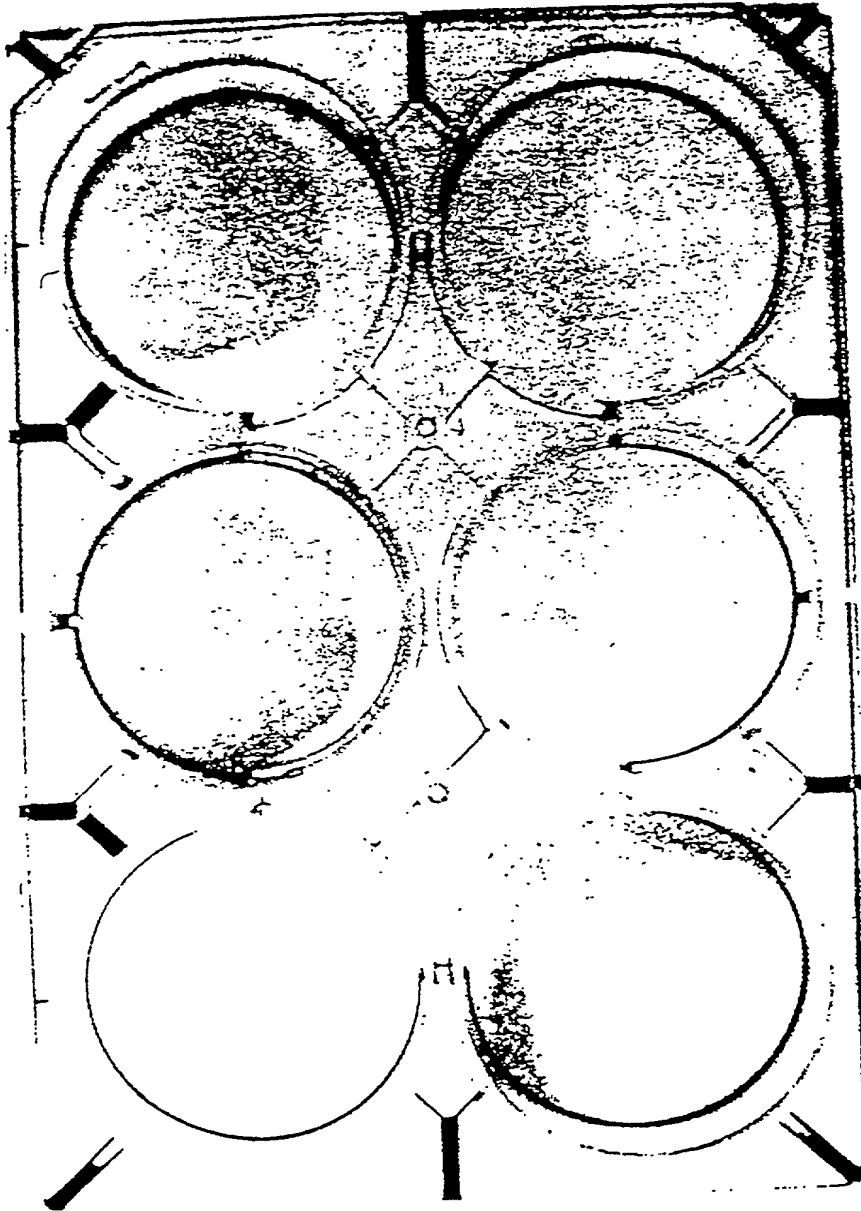


FIG. 6

09734475 420500

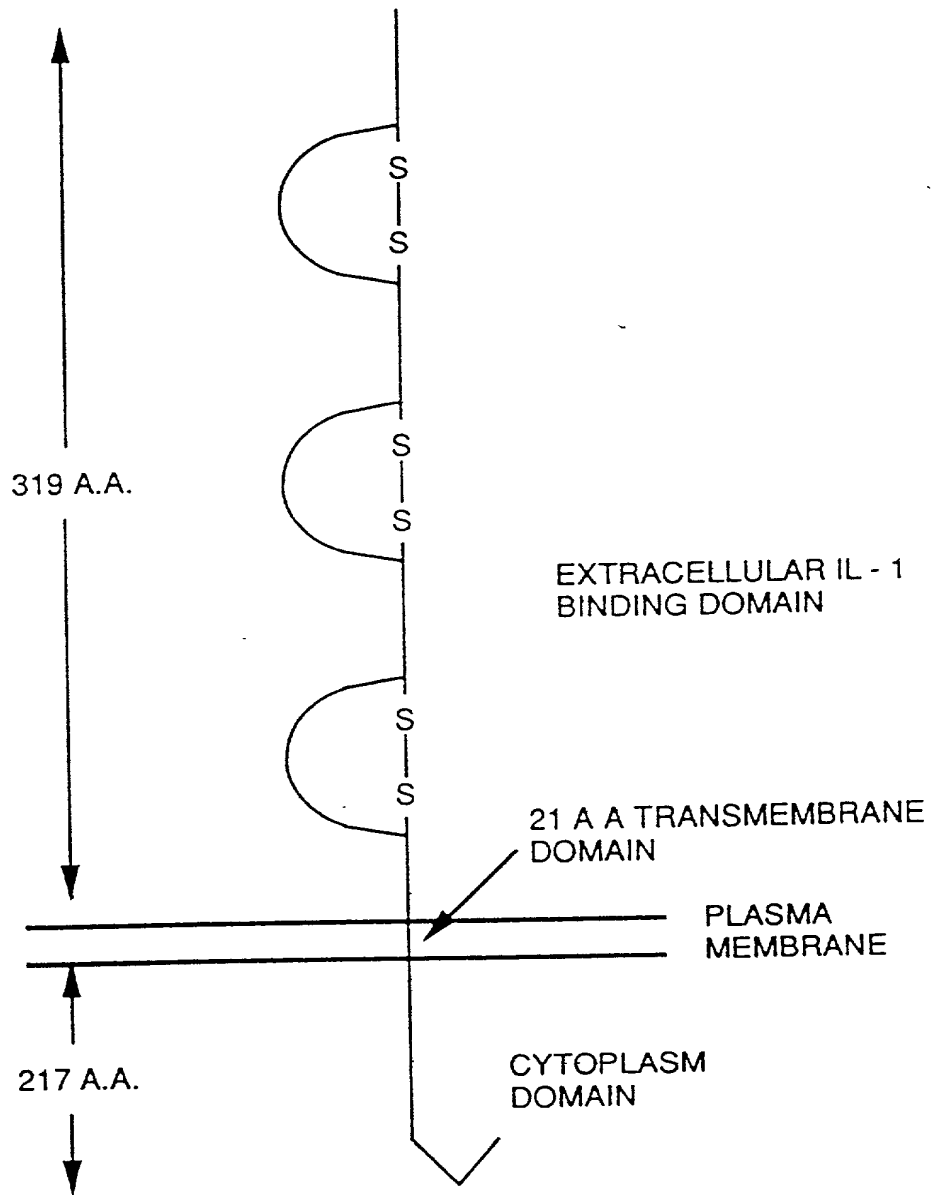


FIG. 7

H	H	5'	CCTCCCTGAGAAAGCTGGACCCCTTGGTAAAGACAGGCCCTTCTCCAAGAGAAGATATGAAAGTGTACTCAGACCTTATTTGTTTCATAGCTCTACTGATTTCTTCT	MetLysValLeuLeuArgLeuLeuCysPheIleAlaLeuLeuLeuSerSer	-1
H	H				-1
M	M		GGATGTCATCAGAGTTCCACAGTCCCGGACCGGTGAACACACAAATGGAGAATATGAAAGTGTACTGGGGCTCAITTTGCTCATGGTGCTCTGCTG—ICG	MetGluAsnGlyLeuMetValPro	-1
M	M				-1
H	H		LeuGluAlaAspLysCysLysGluArgGluGluLysIleLeuValSerSerAlaAsnGluIleAspValArgProCysProLeuAsnProAsnGlu—His		34
H	H		CTGCAGGCTGATAAATGCAAGGAACGGAAGAAAATAAATTTAGTGTCATCTGCAATGAAATGATGTTCCTGCTCTTAACCCAAATGAA—CAC		102
M	M				
M	M		CTGGAGATTGACGTATGTACAGAATATCCAAATCAGATCGTTTGTATCTGTAATGAAATGATATTCGCAAGTGTCTCTTACTCCCAATAAAATGCAC		105
M	M				
M	M		*****Ile****Thr****TyrProAsnGln****Val****PheLeu****Val****Lys****Lys****Thr****LysMet		35
H	H		LysGlyThrIleThrTrpTyrLysAspSerLysThrProValSerThrGluGlnAlaSerArgIleHisGlnHisLysGluLysLeuTrpPheValProAla		69
H	H		AAAGGCACCTATAAATGGTATAGATGACAGCAAGACACCTGTATCTACAGCAACAGCCTCCAGGATTCATCAACACAAAGAGAACTTTGGTTTGTCTCTGCT		237
M	M				
M	M		CGCGACACCATAATTGGTACAAGAATGACAGCAAGACCCCATATCAGCGGACGGGACTCCAGGATTCATCAGGGAATGAACATCTTTGGTTGTACCTGCC		210
M	M				
M	M		GlyAsp****Ile****Asn****AlaAspArgAsp****Ile****GlnAsn****His****		70
H	H		LysValGluAspSerGlyHisTyrTyrCysValValArgAsnSerSerTyrCysLeuArgIleLysIleSerAlaLysPheValGluAsnGluProAsnLeuCys		104
H	H		AAGTGGAGGATTCAGGACATTAATGCGTGAAGAAATTCATCTTACGCTCAGAAATTAATAAATAGTGCAAAATTTGTGGAGAAATGAGCCTTAACCTTATGT		312
M	M				
M	M		AAGTGGAGGACTCAGGATATTACTATTGTATAGTAAGAACTCAACTTACTGCCTCAAACTAAAGTAACCGTAACCTGTGTGTAGAGAATGACCCTGGCTTGTGT		315
M	M		*****Thr****Pro****Arg****HisIle****LysThr****ValThrValThrValLeu****Asp****Gly****		105
H	H		TyrAsnAlaGlnAlaIlePheLysGlnLysLeuProValAlaGluAspGluValLysProTyrMetGluPheLysAsnGluAsnAsnGluLeuPro		339
H	H		TATAATGCACAAGCCATATTAAGCAGAAACTACCCGTTGCAGGAGACGGAGGACTTGTGCGCCCTTATATGGAGTTTTTAAATGAAATGAAATGAGTTACCT		417
M	M				
M	M		TACAGCACACAGGCCACCTCCACAGCGGCTCCACATTGCCCGGGATGGAAAGTCTTGTGCGCCTTATGTGAGTTATTTTAAAGATGAAATGAGTTACCC		420
M	M		****SerThr****Thr****Pro****Arg****HisIle****Ser****ValSerTyr****Asp****		140
H	H		LysLeuGlnTrpTyrLysAspCysLysProLeuLeuLeuAspAsnIleHisPheSerGlyValLysAspArgLeuIleValMetAsnValAlaGluLysHisArg		174
H	H		AAATTACAGTGGTATAAGGATTGCAAACTCTACTCTTGACAATATACACTTTAGTGAGTCAAGATAGGCTCATCGTGATGAATGTGGCTGAAAAGCATAGA		522
M	M				
M	M		GAGGTCAGTGGTATAAGAACTGTAAACCTCTGCTCTTGACAACGCTGAGCTTCTTCGGAGTAAAGATAAACTGTGGTGAGGAATGTGGCTGAAGAGCACAGA		525
M	M				
M	M		GLUVal****Asn****Asn****ValSer****Phe****Lys****Leu****Arg****		175
H	H		GlyAsnTyrThrCysHisAlaSerTyrThrTyrLeuGluLysGlnTyrProIleThrArgValIleGluPheIleThrLeuGluAsnLysProThrArgPro		229
H	H		GGGAACCTACTTGTTCATGTCATCTACACATCTTGGCAAGCAATATCTTATACCCGGGTAAATAGAAATTTATCTCTAGAGGAAAACAAACCCACAGGCT		627
M	M				
M	M		GGGGACTATATATGCCGTATGTCCTATACGTTCCGGGGGAAGCAATATCCGGTACACCGAGTAAATACAAATTTATCAAAATAGATGAAAACCAAGAGGGACAGACCT		630
M	M		****Asp****Ile****ArgMet****PheArg****Val****Gln****IleAsp****ArgAsp****		210

FIG. 8A



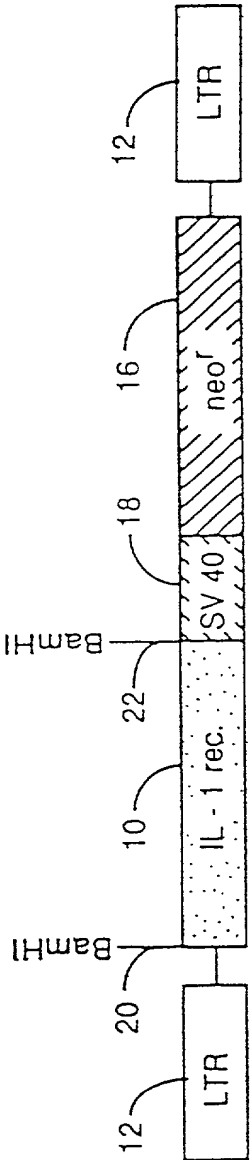


H ValGluValIleAsnGluAsnValLysLysSerArgArgLeuIleIleLeuValArgGluThrSerGlyPheSerTrpLeuGluGlySerSerGluGluGln 454  
 H GTTGAAGGTCATTAAATGAAACGTAAGAAAGCAGAGACTGATTATCATTTTAGTCAGAGAAACATCAGGCTTCAGCTGGCTGGGTGGTTTCATCTGAAGAGCAA 1362  
 M ATCGAGGTTACTAATGAAATGTAAAGAAAGCAGGAGGCTGATTATCATTTCTAGTGAAGATATGGCAGGCTTCAGCTGGCTGGCCAGTCATCTGAAGAGCAA 1353  
 M Ile\*\*\*\*\*Thr\*\*\*\*\*AspMetGly\*\*\*\*\*Gln\*\*\*\*\* 455  
 H IleAlaMetTyrAsnAlaLeuValGlnAspGlyIleLysValValLeuLeuGluLysIleGlnAspTyrGluLysMetProGluSerIleLysPheIle 489  
 H ATAGCCATGTATAATGCTCTTGTTCAGGATGGAAATTAAGTTGTCTCTGCTTGAGCTGGAGAGAAATCCCAAGACTATGAGAGAAATGCCAGAAATCGATTAAATTCATT 1467  
 M ATAGCCATATACAATGCTCTCATCCAGGAAGGAAATTAATAATCGTCTCTGCTTGAGTTGGAGAGAAATCCCAAGACTATGAGAGAAATGCCAGAAATTCATTTCAGTTTCATT 1470  
 M \*\*\*\*\*Ile\*\*\*\*\*Glu\*\*\*\*\* 490  
 H LysGlnLysHisGlyAlaIleArgTrpSerGlyAspPheThrGlnGlyProGlnSerAlaLysThrArgPheTrpLysAsnValArgTyrHisMetProValGln 524  
 H AAGCAGAAACATGGGGCTATCCGCTGGTCAGGGACTTTACACAGGGACCCACAGTCTGCAAGAGACAAGGTTCTGGAGAAATGTCAGGTACCACATGCCAGTCCAG 1572  
 M AAGCAGAAACACGGGAGTCAATTGCTGGTCAGGAGACTTTCAAGAGAAAGACCCACAGTCTGCAAGAGACCAGGTTCTGGAGAAACTTAAGATACCACATGCCAGGCCCAA 1575  
 M \*\*\*\*\*Val\*\*\*\*\*Cys\*\*\*\*\*GlnGluArg\*\*\*\*\*Leu\*\*\*\*\*Gln\*\*\*\*\*Ala\*\*\*\*\* 525  
 H ArgArgSerProSerSerLysHisGlnLeuLeuSer-----ProAlaThrLysGluLysLeuGlnArgGluAlaHisValProLeuGlyEnd 552  
 H CGACCGTCACCTTCATCTAAACACCCAGTTACTGTC-----ACCAGCCACTAAGGAGAAACTGCAAGAGAGAGGCTCACGTGCTCTCGCGTAGCATGGA 1665  
 M CCGGAGATCACCATTTGCTCTAAACACCCGCTTACTAACCCCTGGATCCTGTGCGGGACACTAAGGAGAAACTGCCCGGACGCAACACACTTACCACCTCGGCTAGCATG6C 1680  
 M \*\*\*\*\*Leu\*\*\*\*\*Arg\*\*\*\*\*ThrLeuAspProValArgAsp\*\*\*\*\*ProAlaAlaThr\*\*\*\*\* 557

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FIG. 8C

Structure Of The PLJ - ILrec Retroviral Vector  
And Partial Restriction Endonuclease Map



- LTR - Long Terminal Repeats - Regulates Viral Transcription And Expression Of IL - 1 Receptor
- neo<sup>r</sup> - Bacterial Gene Encoding Resistance To The Antibiotic Neomycin
- SV 40 - Simian Virus 40 Enhancer Promoter - Regulates Expression Of The neo<sup>r</sup> Gene

FIG. 9

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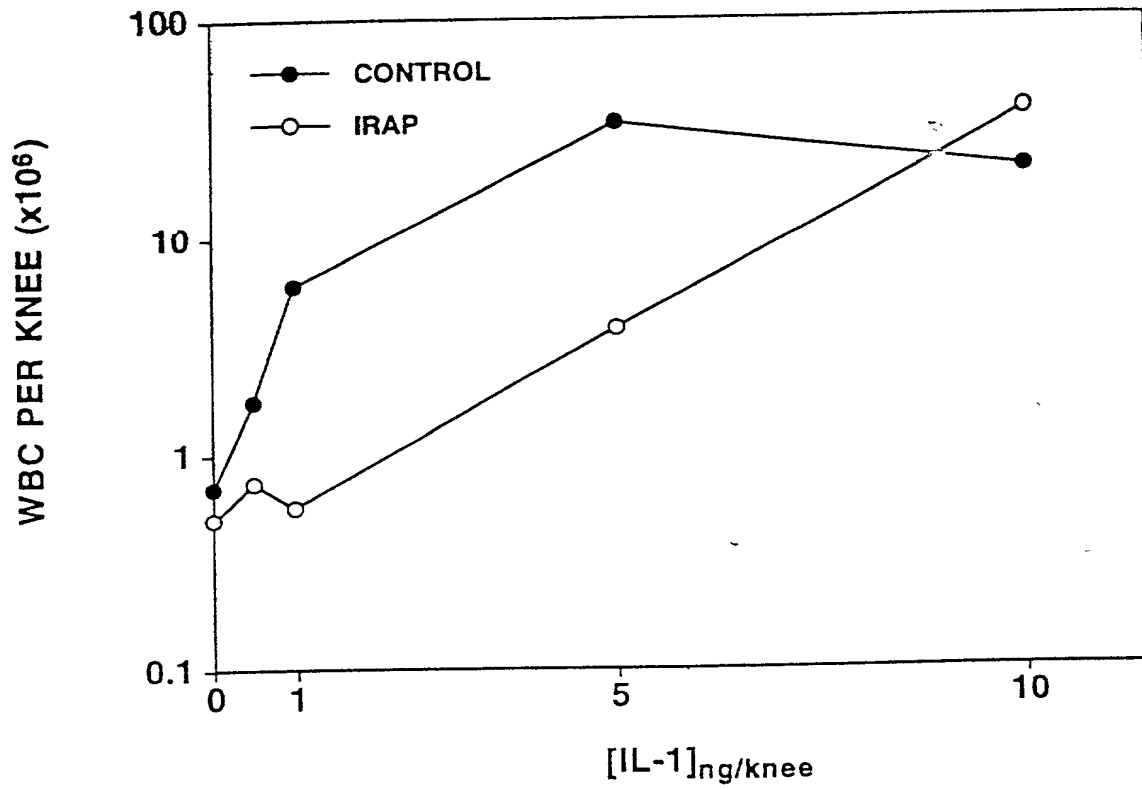


FIG. 10

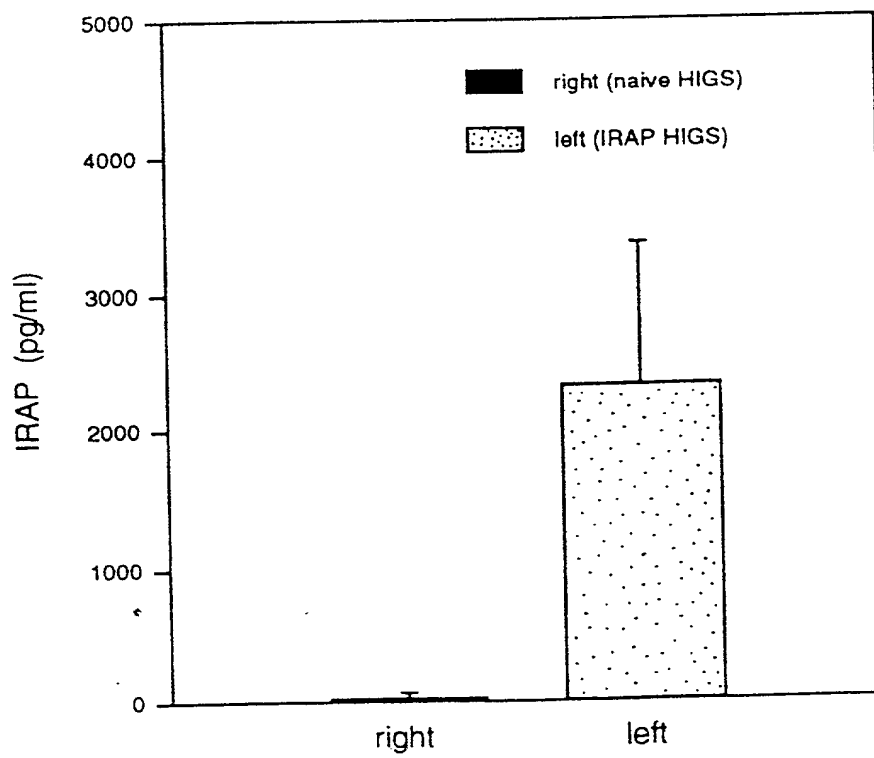


FIG. 11

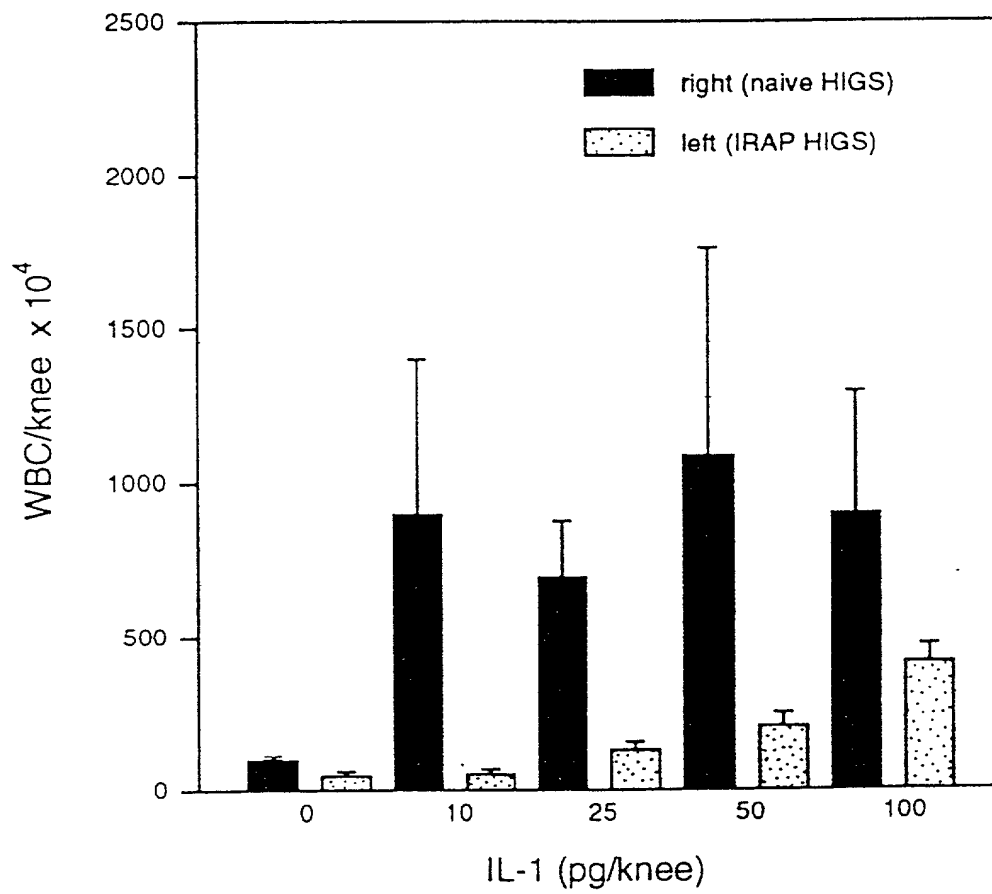


FIG. 12A

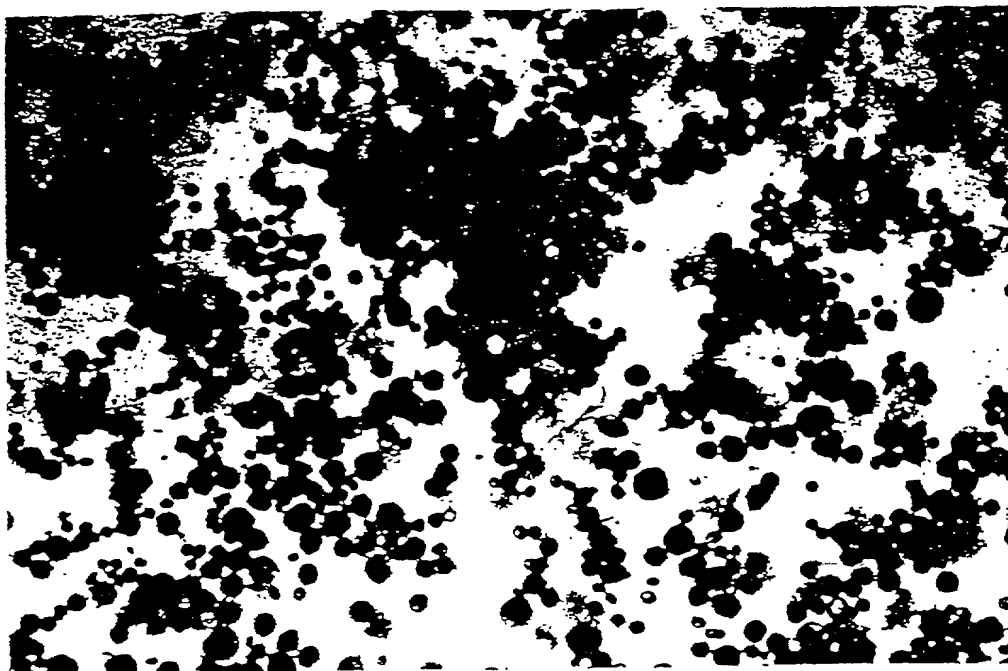


FIG. 12B

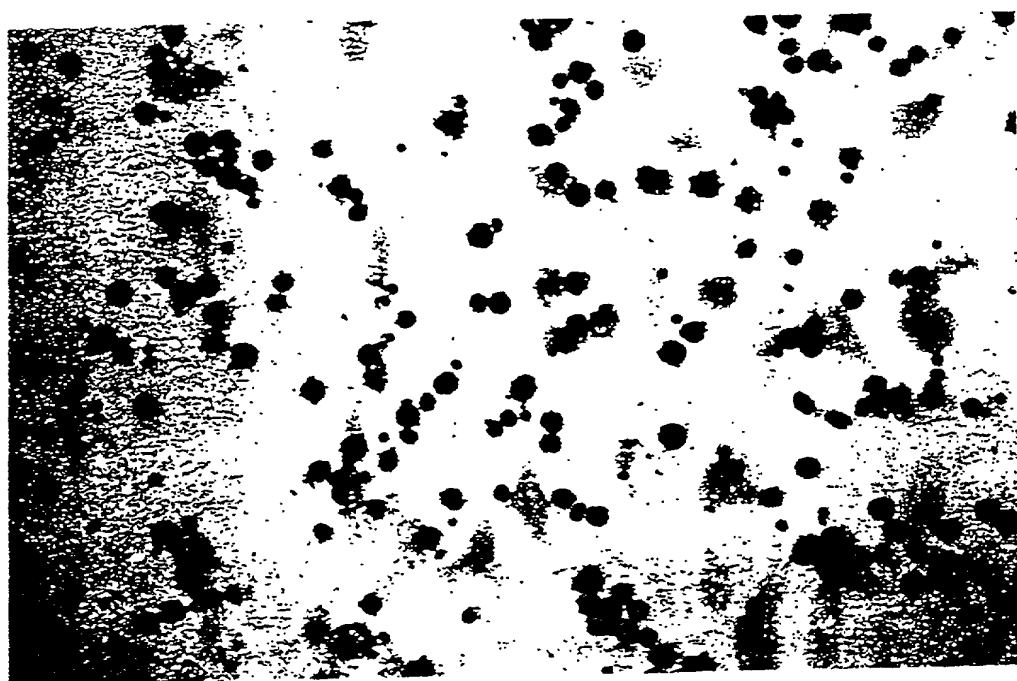


FIG. 12C

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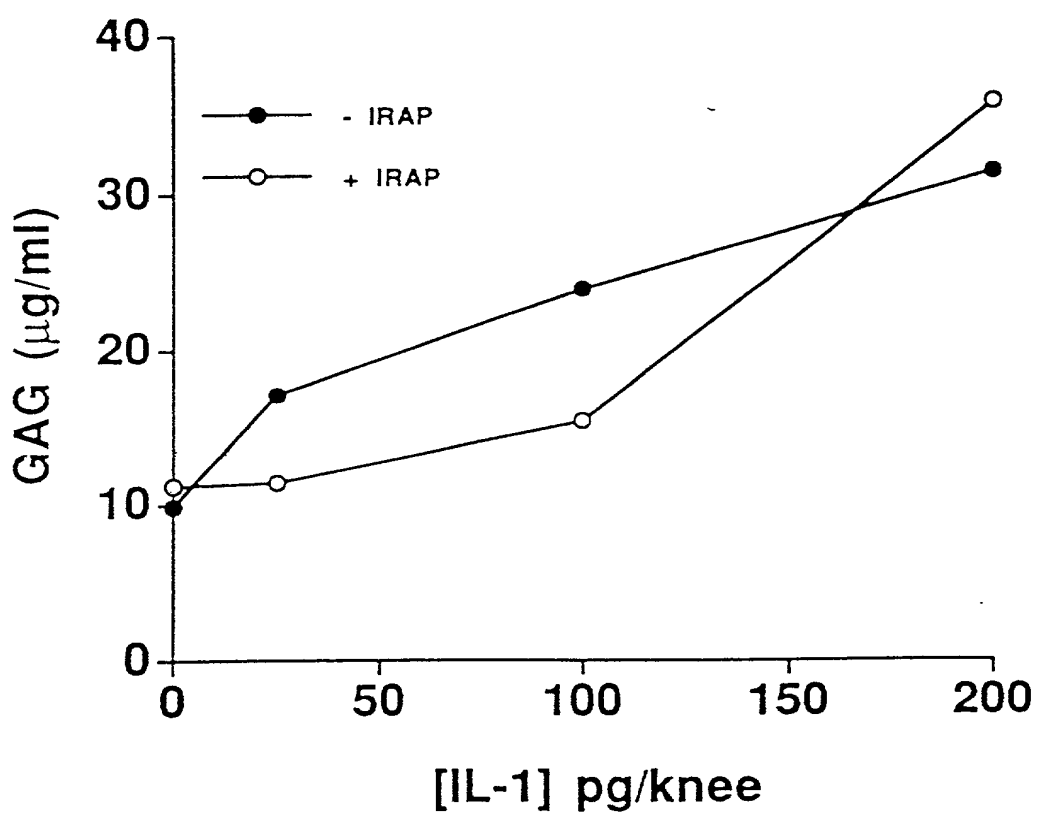


FIG. 13

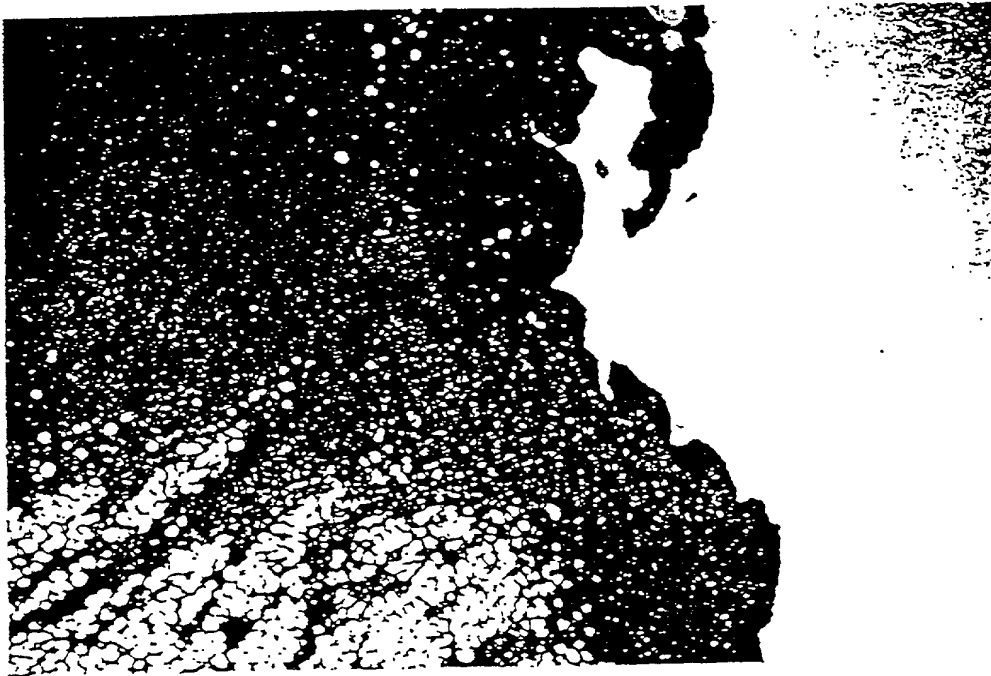


FIG. 14A

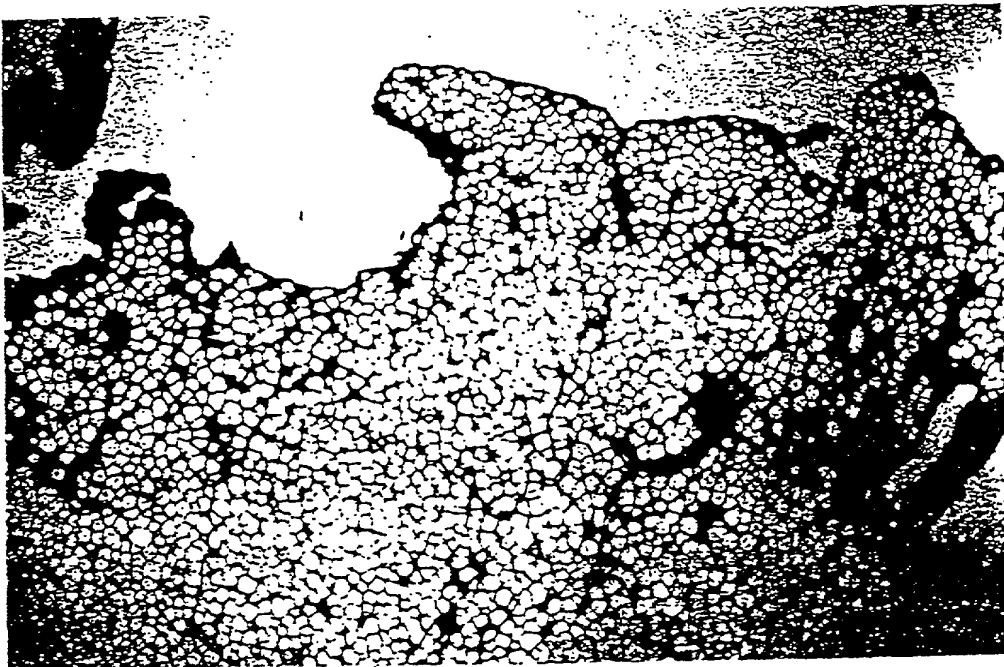


FIG. 14B

09/31/75 120500

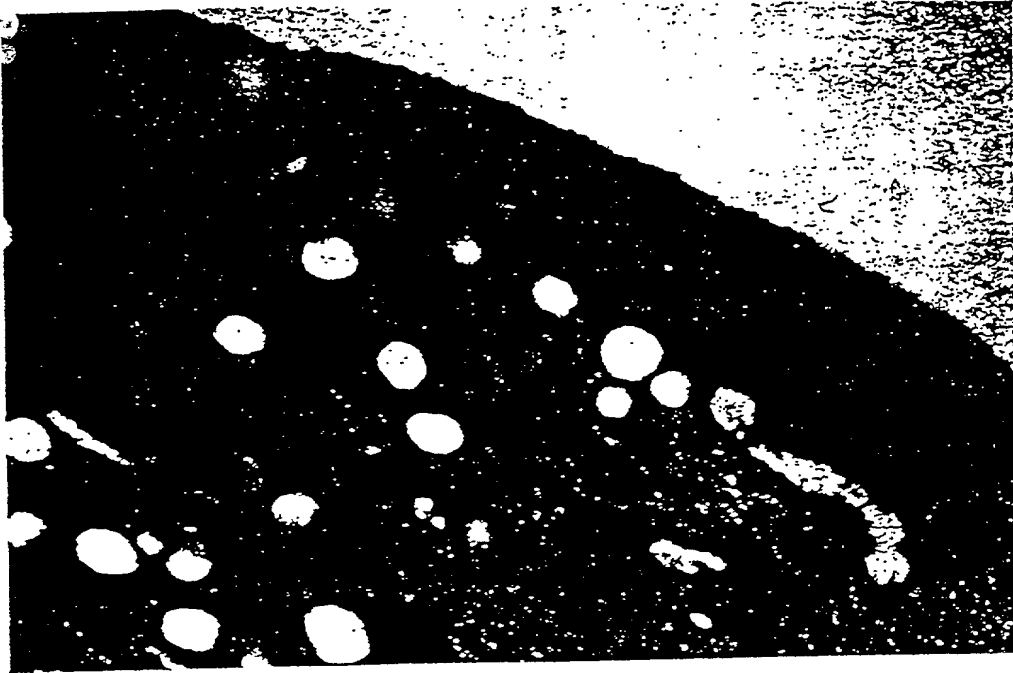


FIG. 14C

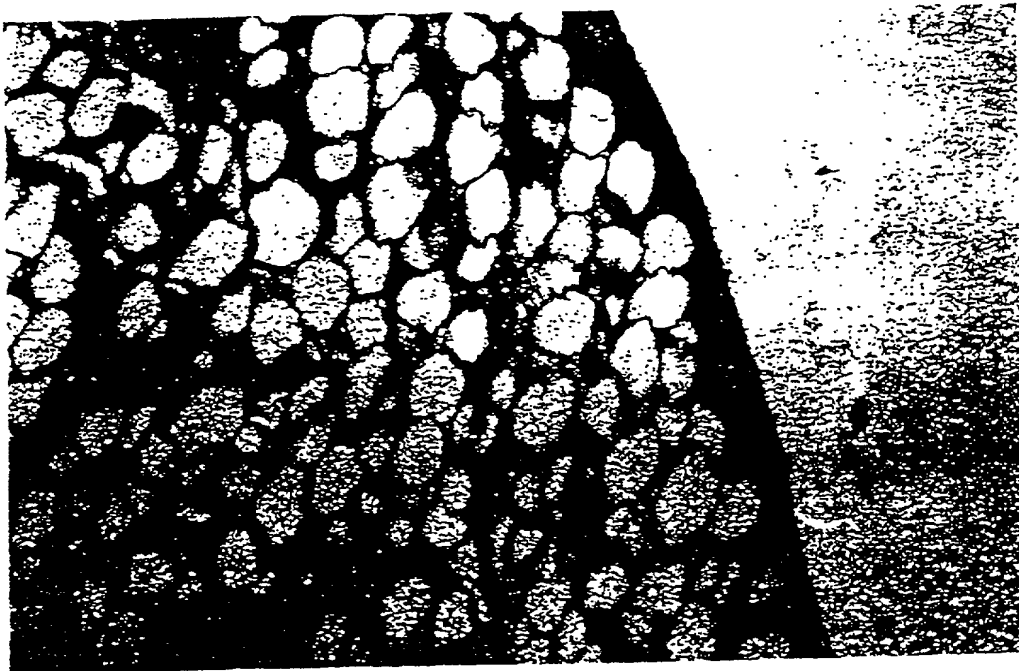


FIG. 14D

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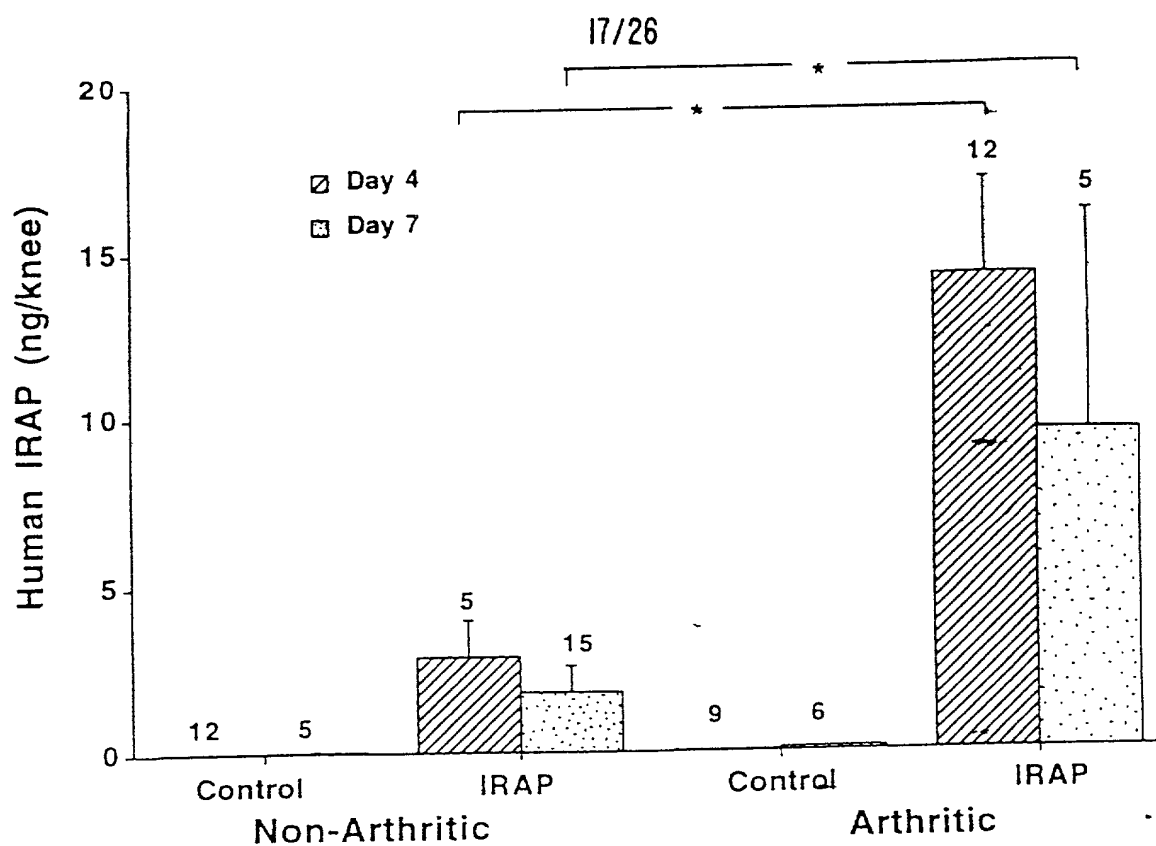


FIG. 15

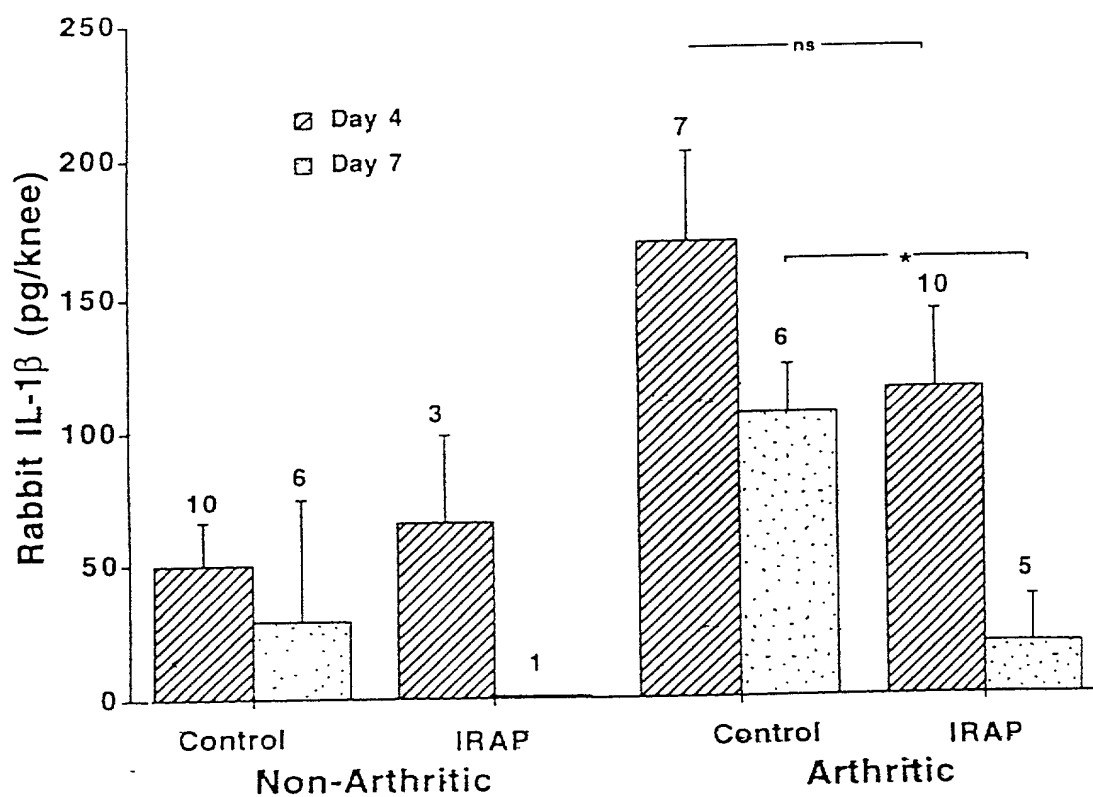


FIG. 16

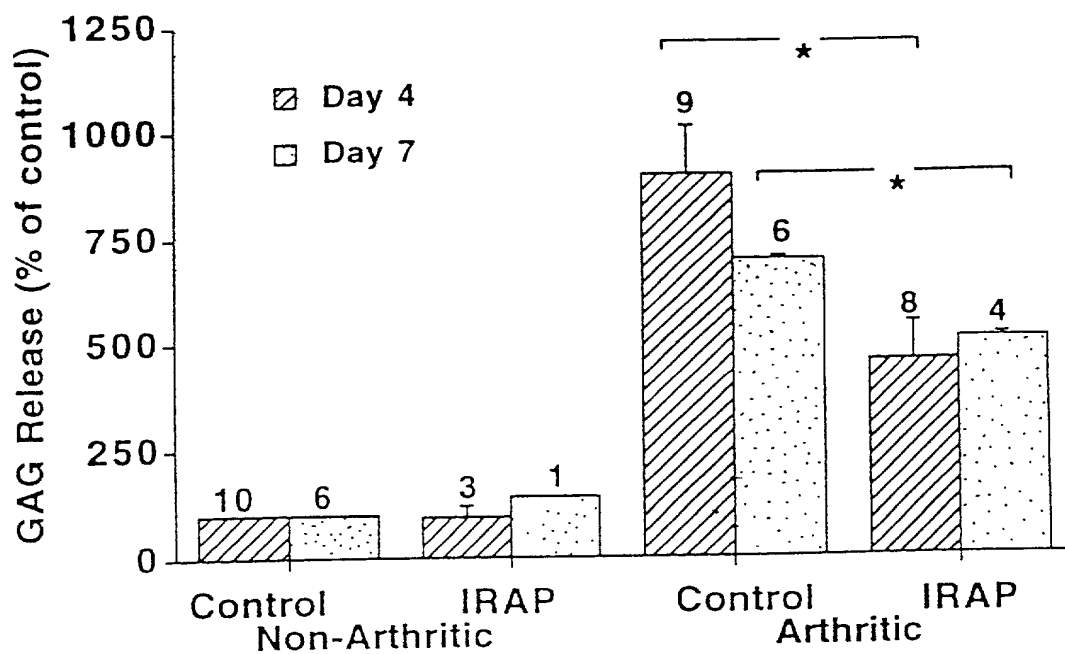


FIG. 17A

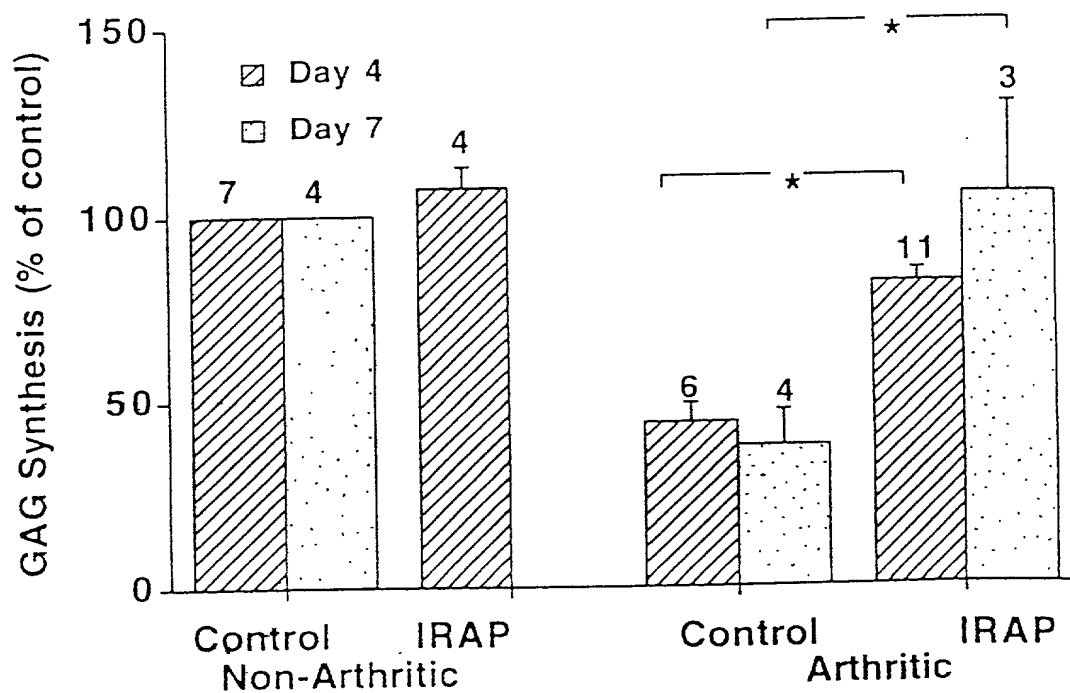


FIG. 17B

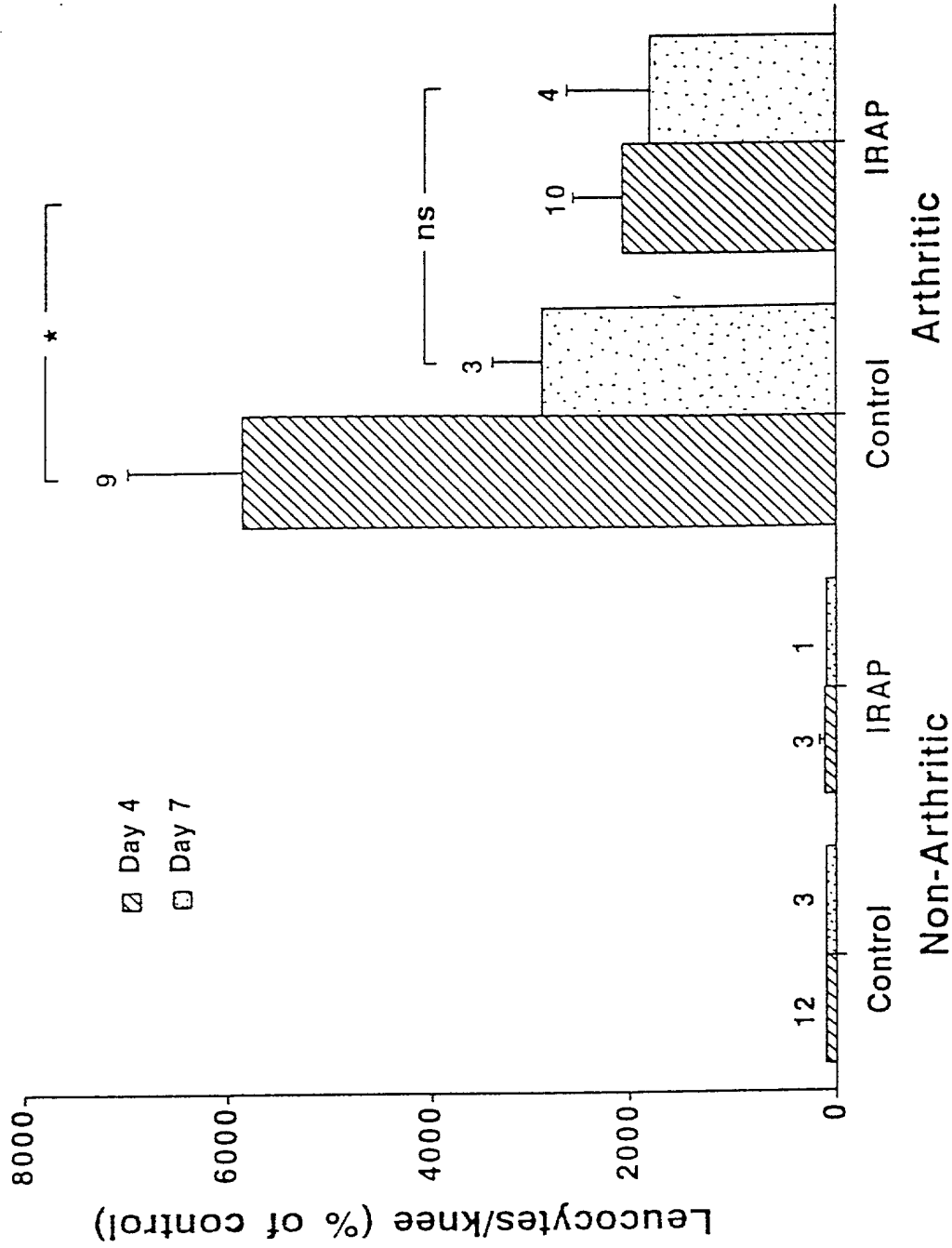


FIG. 18

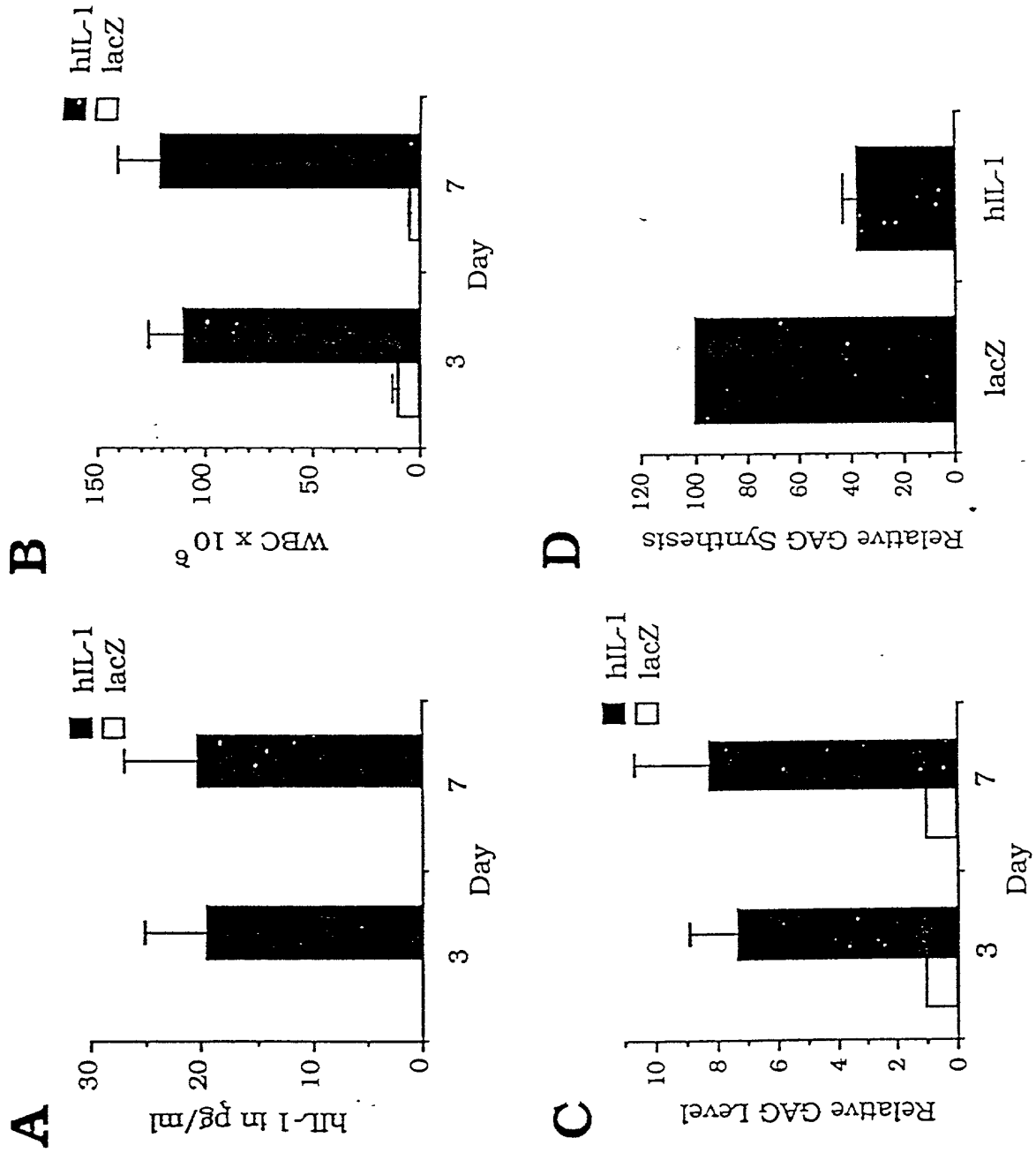


FIG. 19.

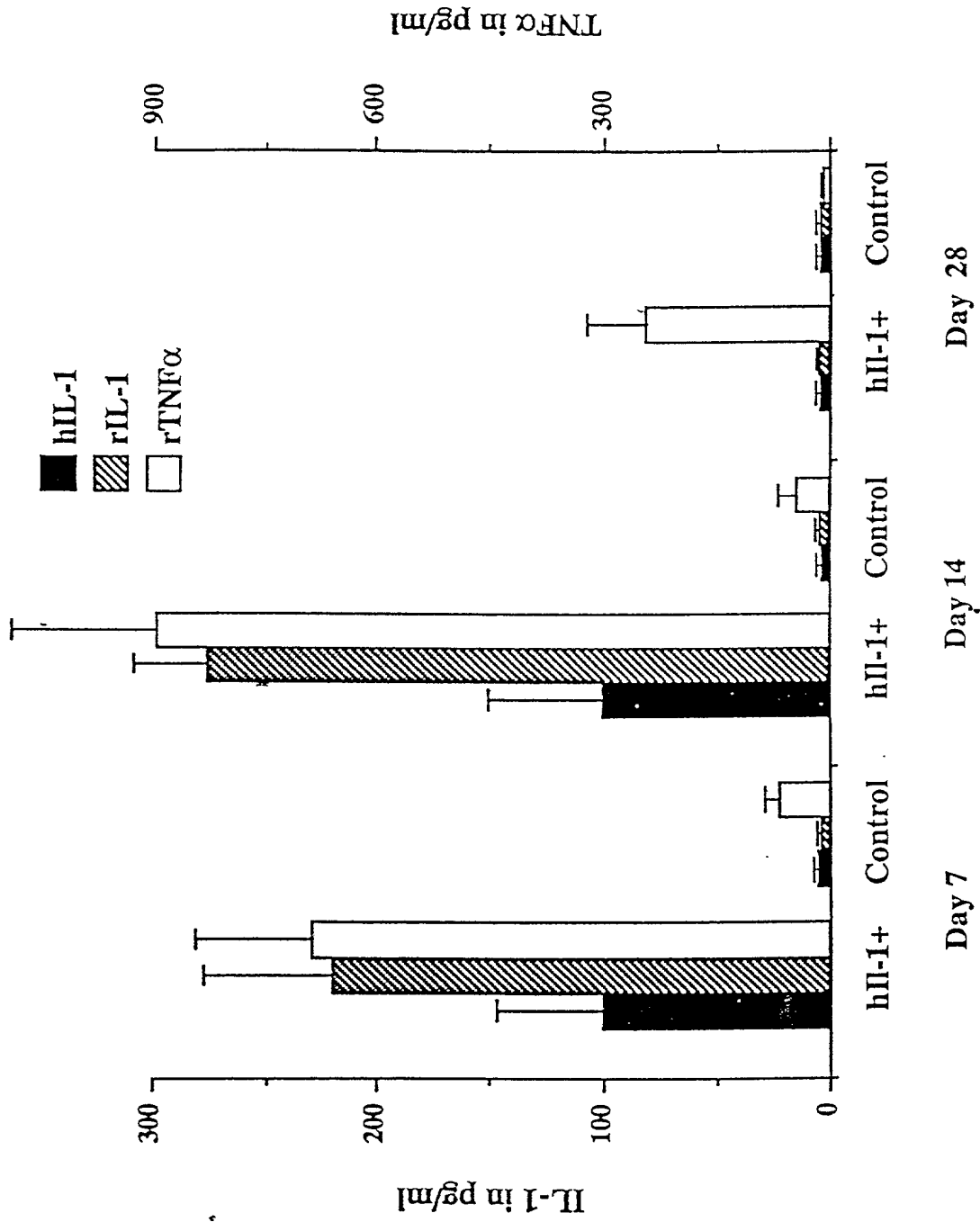


FIG. 20.

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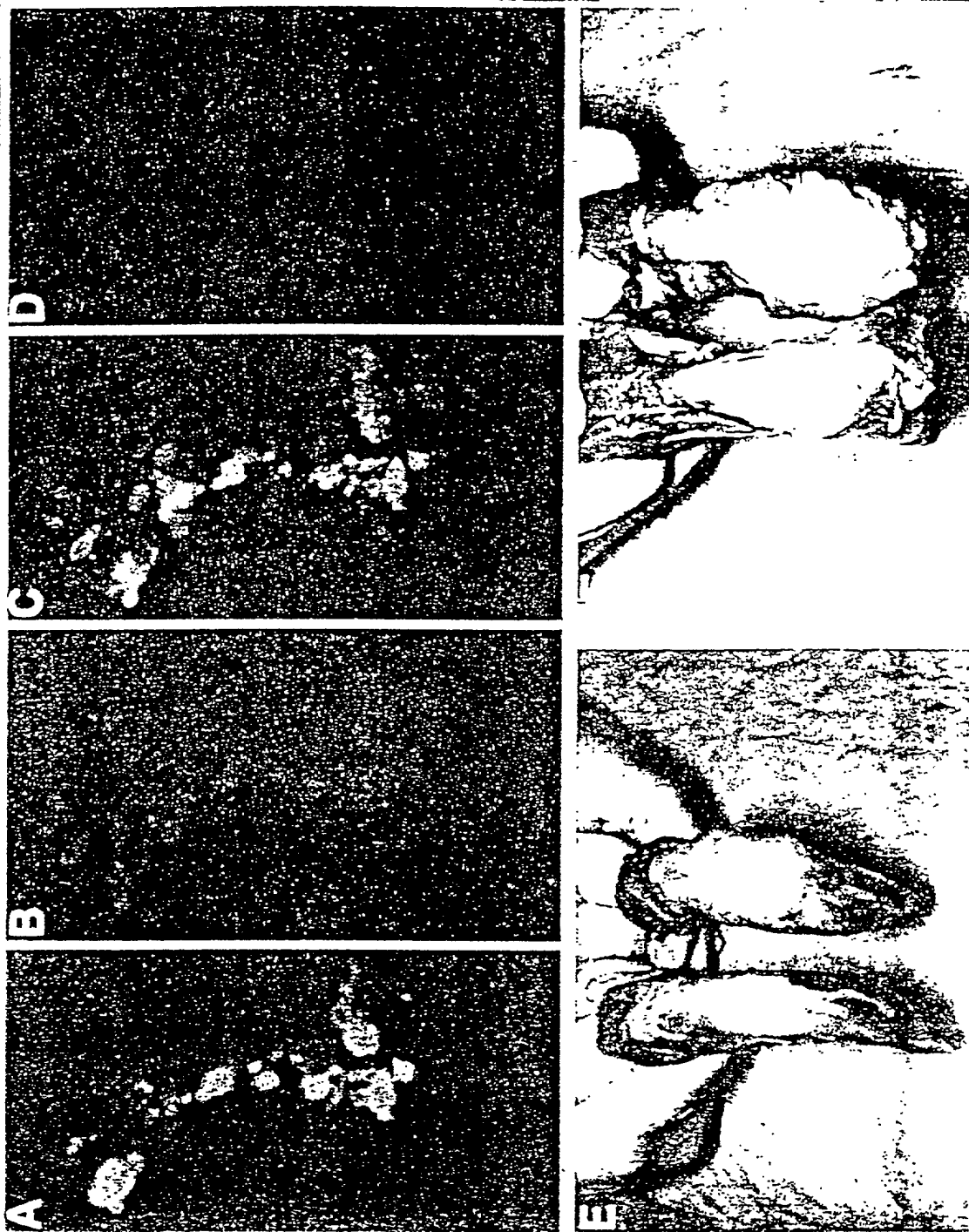


FIG. 21.

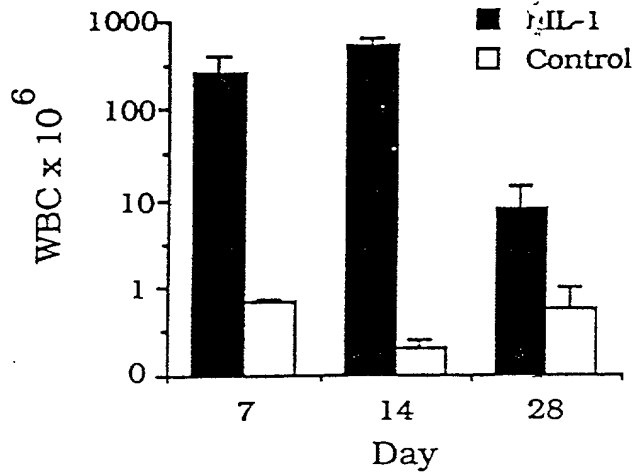
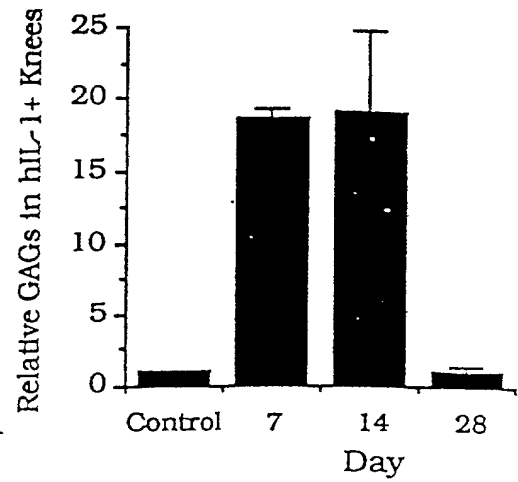
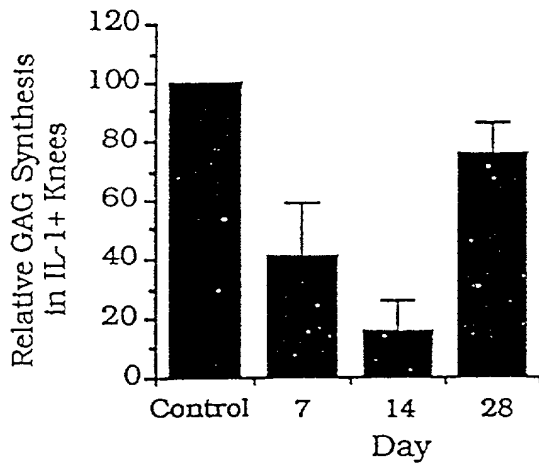
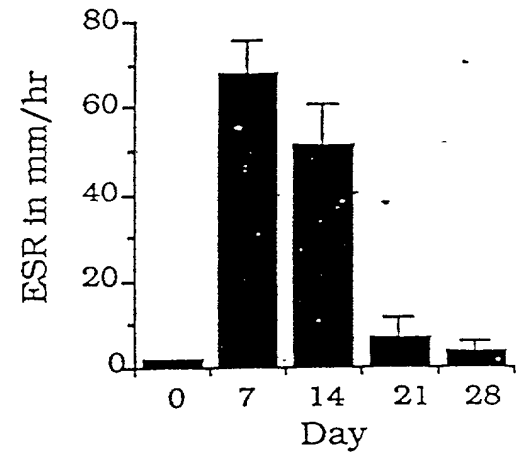
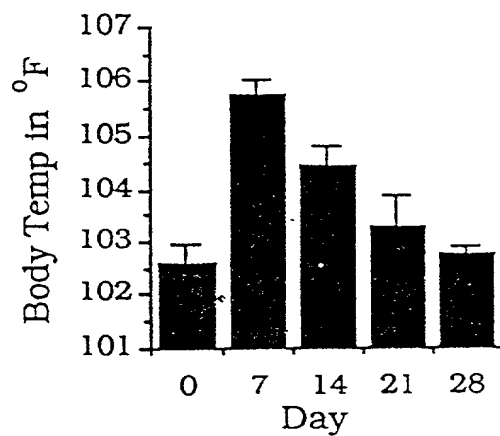
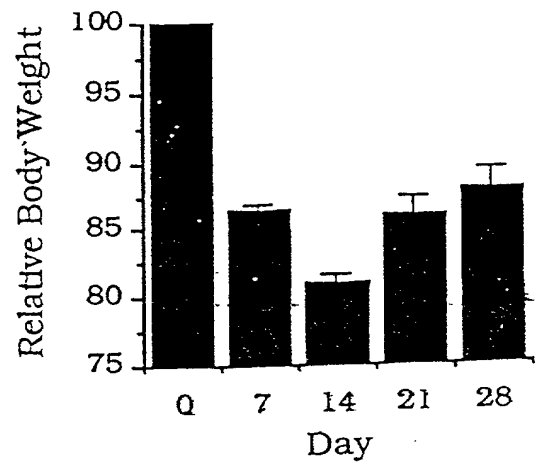
**A****B****C****D****E****F**

FIG. 22.

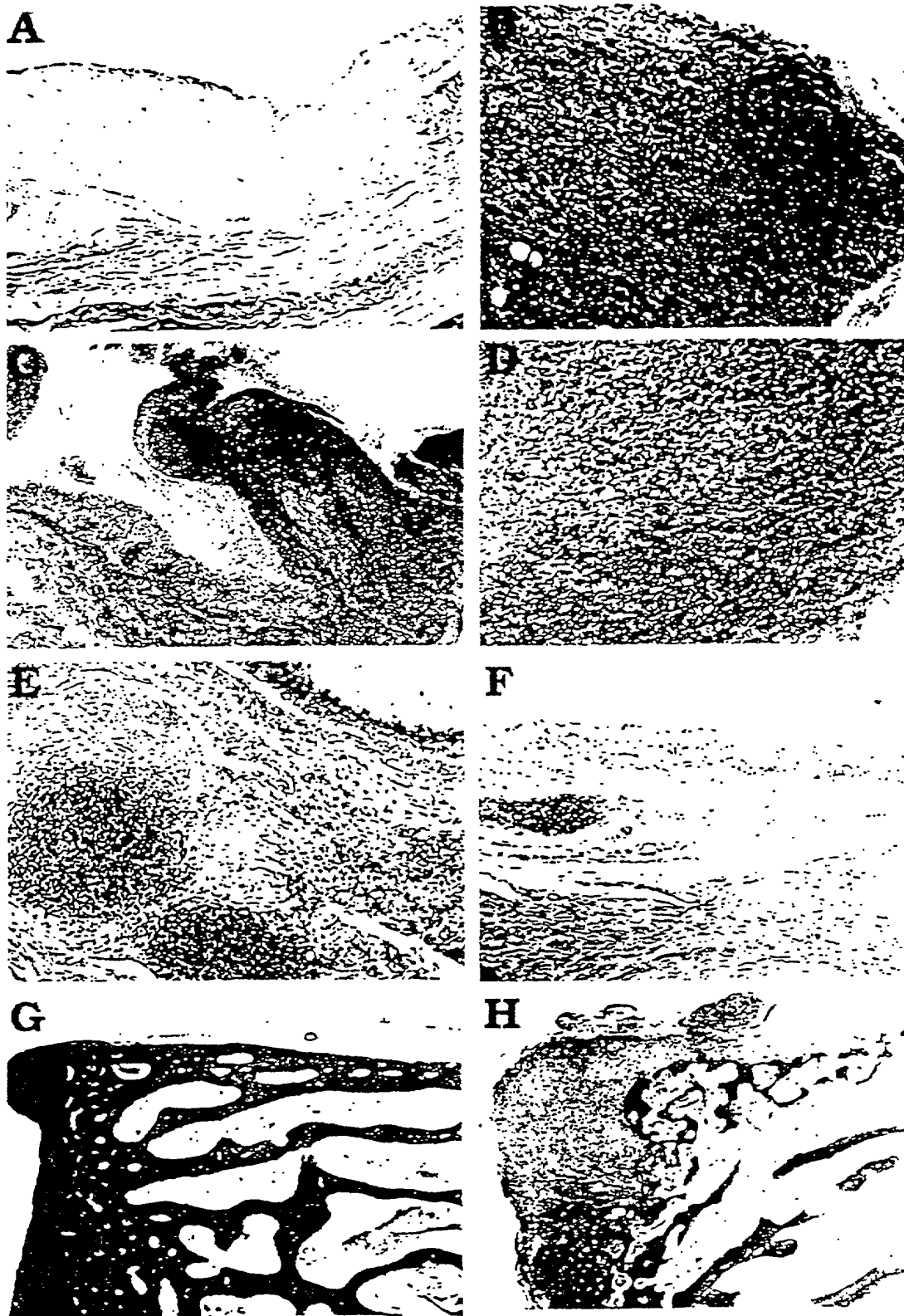


FIG. 23.



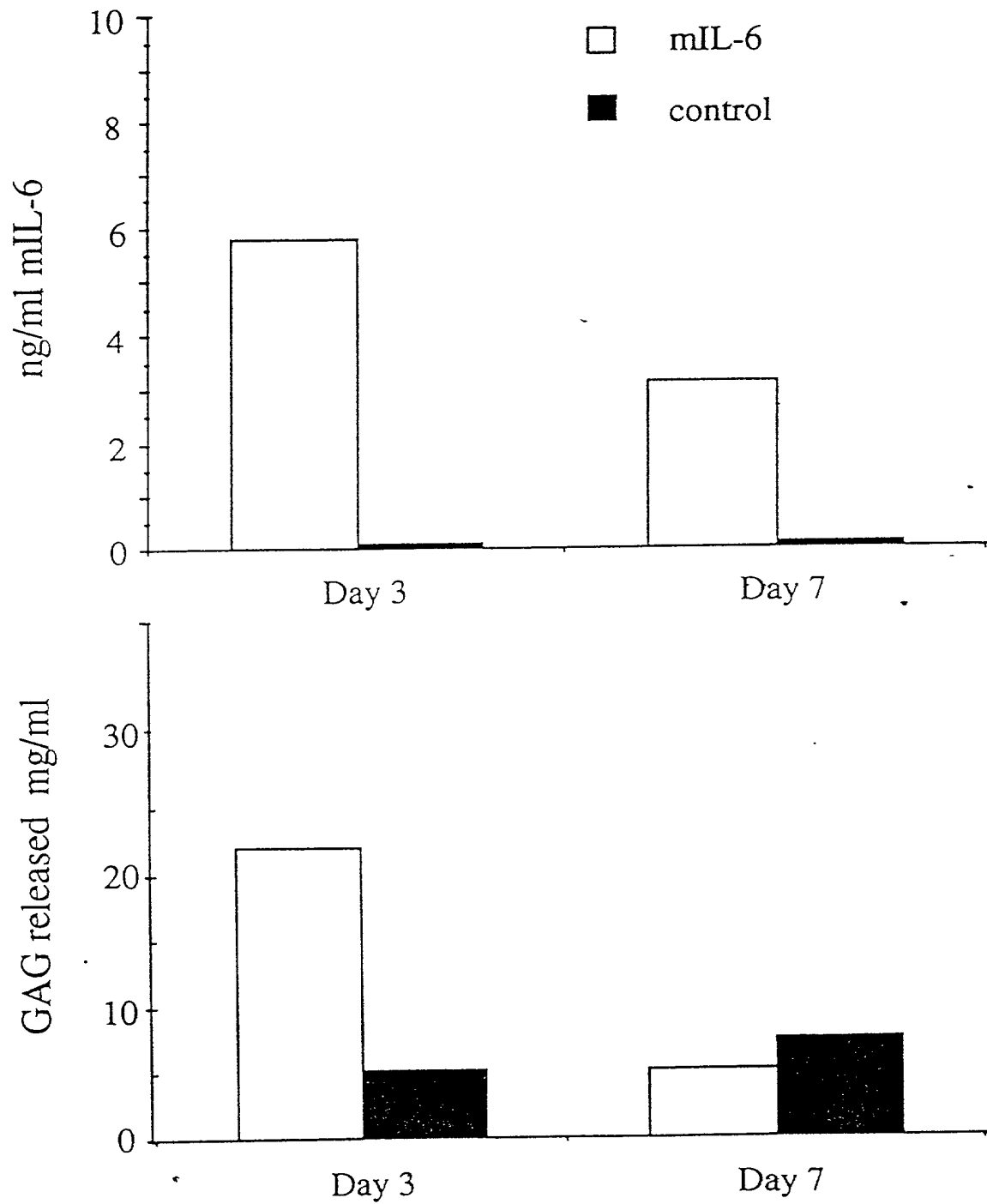


FIG. 24.

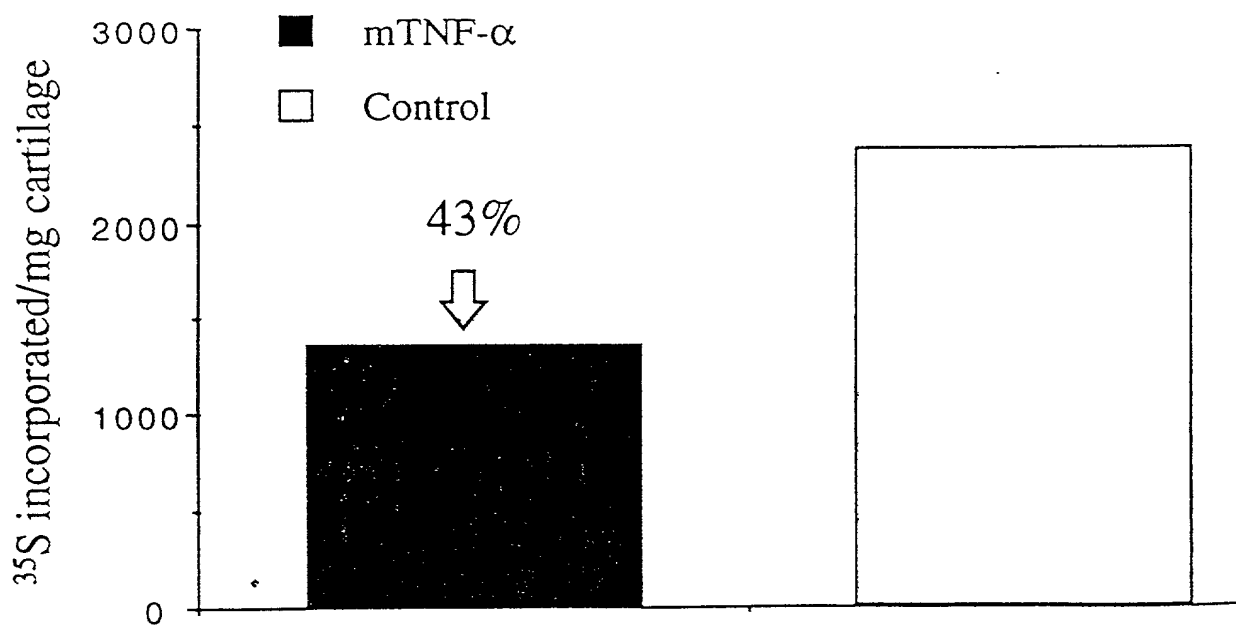
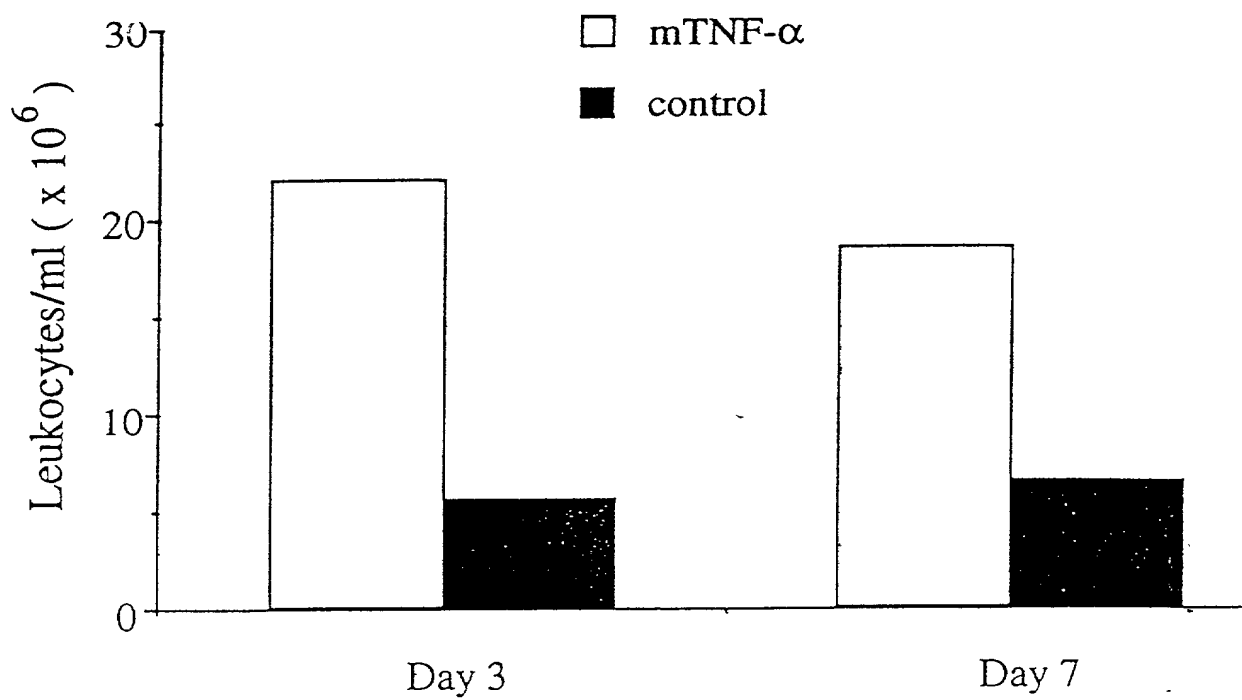


FIG. 25.